



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/12, C07K 14/47, G01N 33/68, C12N 15/62, C07K 16/18	A2	(11) International Publication Number: WO 99/06545 (43) International Publication Date: 11 February 1999 (11.02.99)
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(21) International Application Number: PCT/EP98/04811
(22) International Filing Date: 31 July 1998 (31.07.98)

(30) Priority Data:
97 11 3306.1 1 August 1997 (01.08.97) EP

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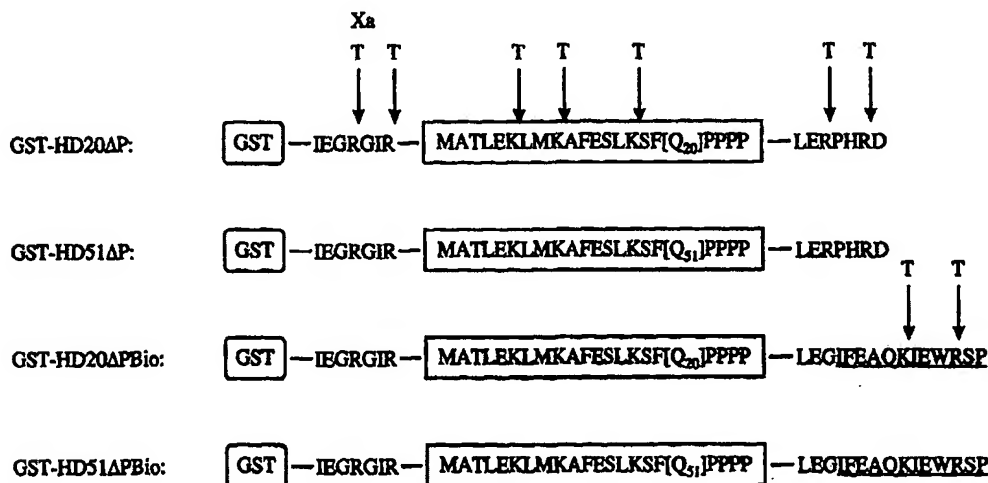
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(81) Designated States: CA, JP, US, European patent (AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE).

Published

Without international search report and to be republished
upon receipt of that report.

(54) Title: COMPOSITION AND METHOD FOR THE DETECTION OF DISEASES ASSOCIATED WITH AMYLOID-LIKE FIBRIL
OR PROTEIN AGGREGATE FORMATION



(57) Abstract

The present invention relates to novel compositions useful for elucidating the onset or progress of diseases of preferably neuronal origin associated with the formation of amyloid-like fibrils or protein aggregates. Further, the present invention relates to methods for monitoring said formation as well as to methods for identifying inhibitors of said formation. Additionally, the invention relates to inhibitors identified by the method of the invention as well as to pharmaceutical compositions comprising said inhibitors.

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<p>(21) International Application Number: PCT/EP98/04811</p> <p>(22) International Filing Date: 31 July 1998 (31.07.98)</p> <p>(30) Priority Data: 97 11 3306.1 1 August 1997 (01.08.97) EP</p> <p>(71) Applicant (for all designated States except US): MAX-PLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN E.V. [DE/DE]; Berlin (DE).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): WANKER, Erich [AT/DE]; Leichhardtstrasse 61, D-14195 Berlin (DE). LEHRACH, Hans [AT/DE]; Lützelsteiner Weg 50, D-14195 Berlin (DE). SCHERZINGER, Eberhard [DE/DE]; Lützelsteiner Weg 52, D-14195 Berlin (DE). BATES, Gillian [GB/GB]; Division of Medical and Molec- ular Genetics, United Medical and Dental Schools, Guy's Hospital, Guy's Tower, 8th floor, London SE1 9RT (GB).</p> <p>(74) Agent: VOSSIUS & PARTNER; Postfach 86 07 67, D-81634 München (DE).</p>		<p>(81) Designated States: CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p>Published With international search report.</p> <p>(88) Date of publication of the international search report: 5 August 1999 (05.08.99)</p>
<p>(54) Title: COMPOSITION AND METHOD FOR THE DETECTION OF DISEASES ASSOCIATED WITH AMYLOID-LIKE FIBRIL OR PROTEIN AGGREGATE FORMATION</p> <div style="text-align: center; margin: 20px 0;"> <p>Xa</p> <p>T T T T T T T T</p> <p>↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓</p> </div> <p>GST-HD20AP: GST - IEGRGIR - MATLEKLMKAFESLKSF(Q₂₀)PPPP - LERPHRD</p> <p>GST-HD51AP: GST - IEGRGIR - MATLEKLMKAFESLKSF(Q₅₁)PPPP - LERPHRD</p> <p>GST-HD20APBio: GST - IEGRGIR - MATLEKLMKAFESLKSF(Q₂₀)PPPP - LEGIFEAKIEWRSP</p> <p>GST-HD51APBio: GST - IEGRGIR - MATLEKLMKAFESLKSF(Q₅₁)PPPP - LEGIFEAKIEWRSP</p> <p style="text-align: right; margin-right: 100px;">T T ↓ ↓</p>		
<p>(57) Abstract</p> <p>The present invention relates to novel compositions useful for elucidating the onset or progress of diseases of preferably neuronal origin associated with the formation of amyloid-like fibrils or protein aggregates. Further, the present invention relates to methods for monitoring said formation as well as to methods for identifying inhibitors of said formation. Additionally, the invention relates to inhibitors identified by the method of the invention as well as to pharmaceutical compositions comprising said inhibitors.</p>		

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INTERNATIONAL SEARCH REPORT

Internal Application No

PCT/EP 98/04811

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C07K14/47 C12N15/12 C12N15/62 C07K16/18 C12N15/63
A01K67/027 A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97 17445 A (CENTRE NAT RECH SCIENT ;INST NAT SANTE RECH MED) 15 May 1997 see page 3, line 7 - page 4, line 33 see page 14, line 10 - page 16, line 32; example 1	1,13,20
X	C.A. GUTEKUNST ET AL., : "Identification and localization of huntingtin in brain and human lymphoblastoid cell lines with anti-fusion protein antibodies " PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, vol. 92, 1995, pages 8710-8714, XP002101176 cited in the application see page 8710	1-6,8,13

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Date of the actual completion of the international search

28 April 1999

Date of mailing of the international search report

21/05/1999

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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X	<p>TROTTIER Y ET AL: "POLYGLUTAMINE EXPANSION AS A PATHOLOGICAL EPITOPE IN HUNTINGTON'S DISEASE AND FOUR DOMINANT CEREBELLAR ATAXIAS"</p> <p>NATURE, vol. 378, no. 6555, 23 November 1995, pages 403-406, XP002009617 see the whole document and specially last paragraph</p> <p style="text-align: center;">---</p>	1-6,13
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A	<p>WO 95 29243 A (UPJOHN CO) 2 November 1995 see page 7, line 18 - page 11, line 30</p> <p style="text-align: center;">---</p>	1,8,15
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Internat. Application No.

PCT/EP 98/04811

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

Information on patent family members

Internal Application No

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